

Patent Application for: Varying Refractive Index Optical Medium Using
at Least Two Materials with Thicknesses Less than a Wavelength
Inventor(s): Yan Zhou and Seng-Tiong Ho
Attorney Docket No. 10095/18 and Serial No. Applied For

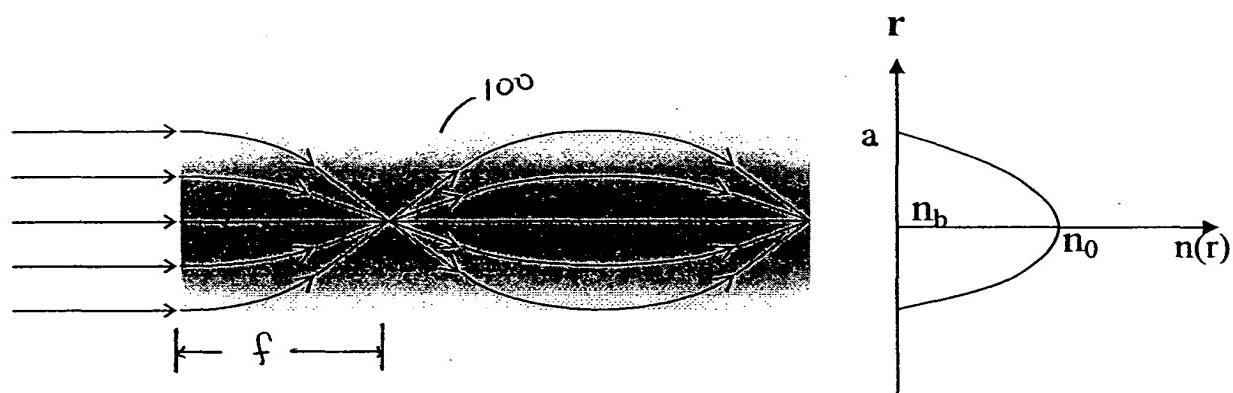


Fig. 1

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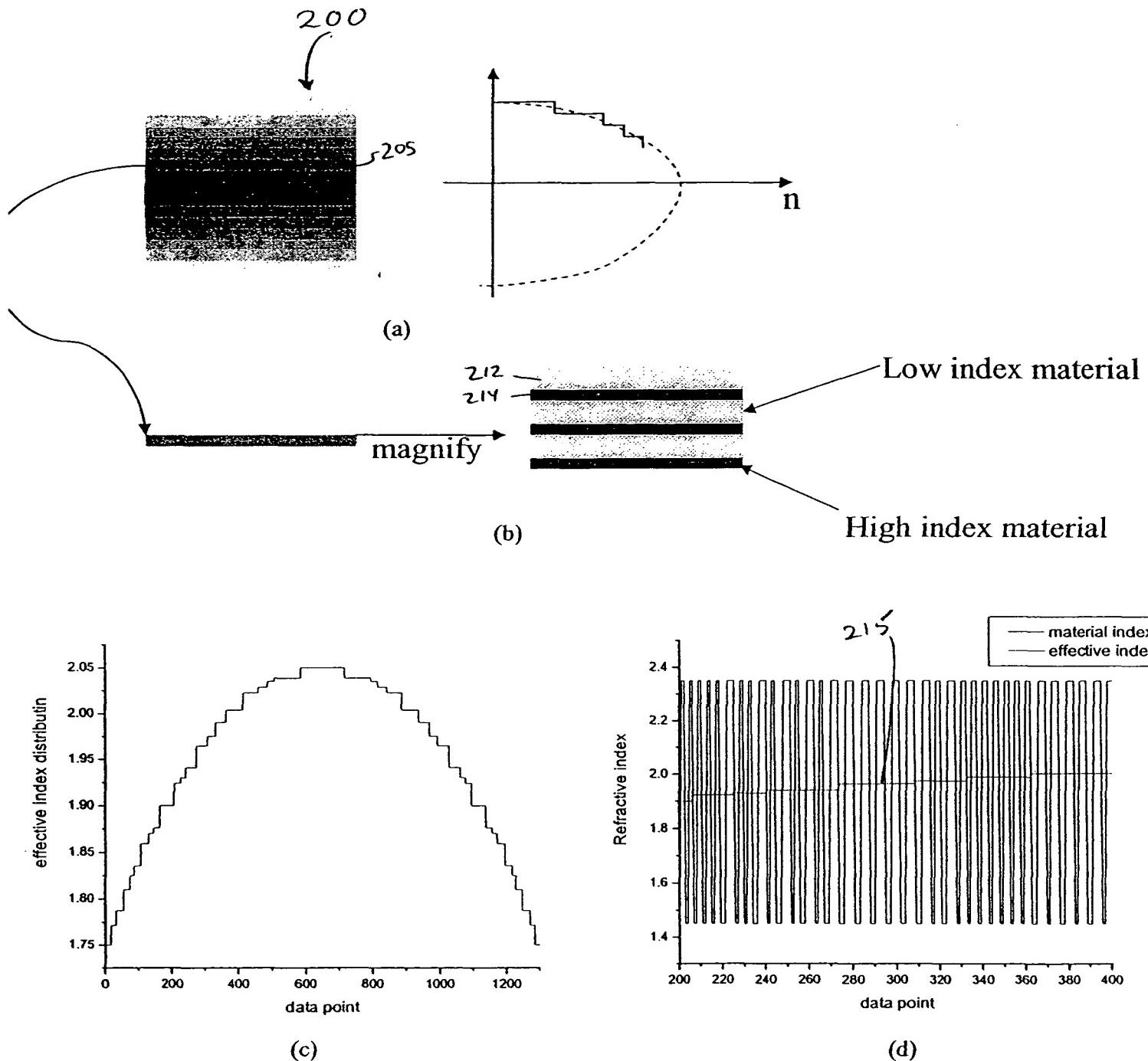
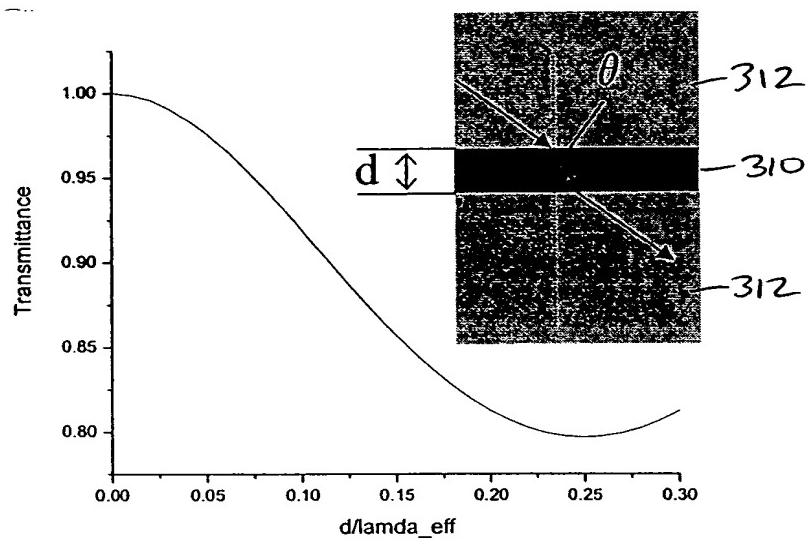


FIG. 2

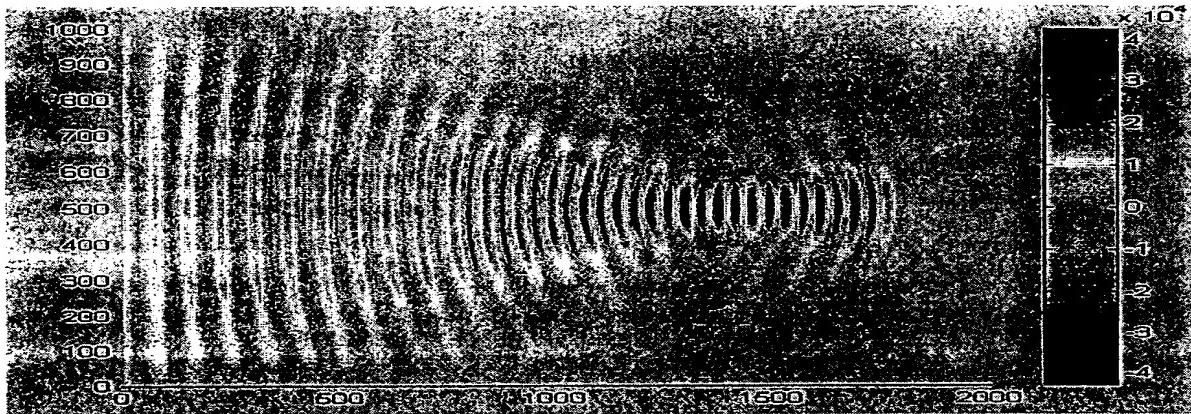
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Relationship of transmittance vs d/λ_{eff}

FIG. 3

Multiple-step-index case



Two-material case

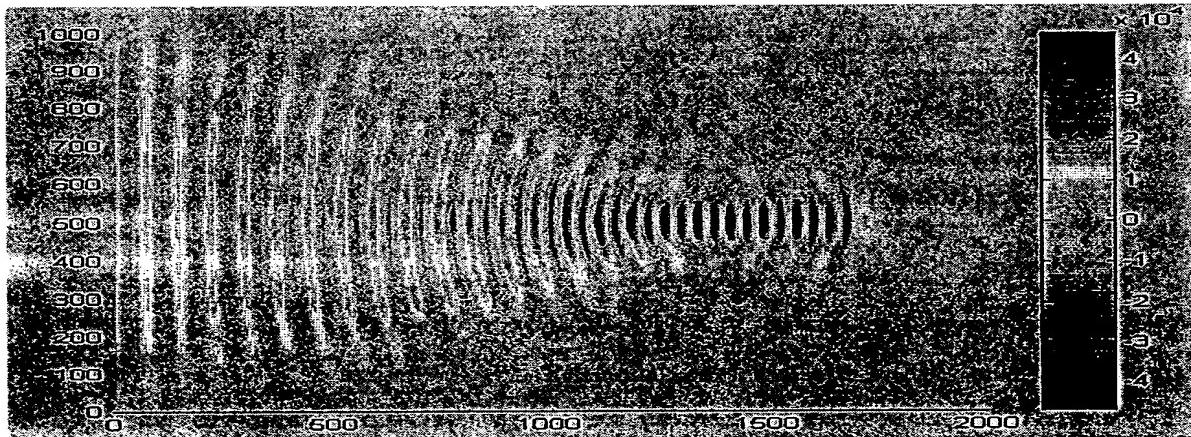
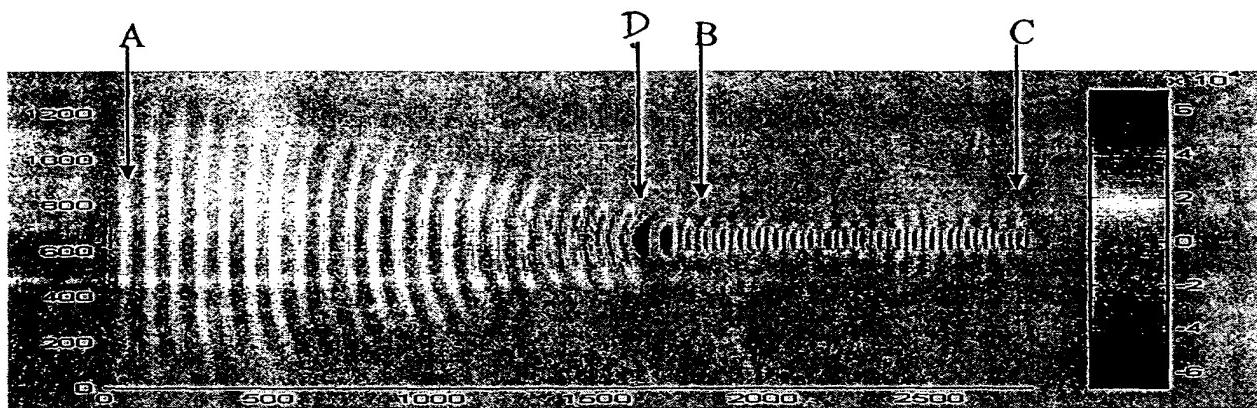
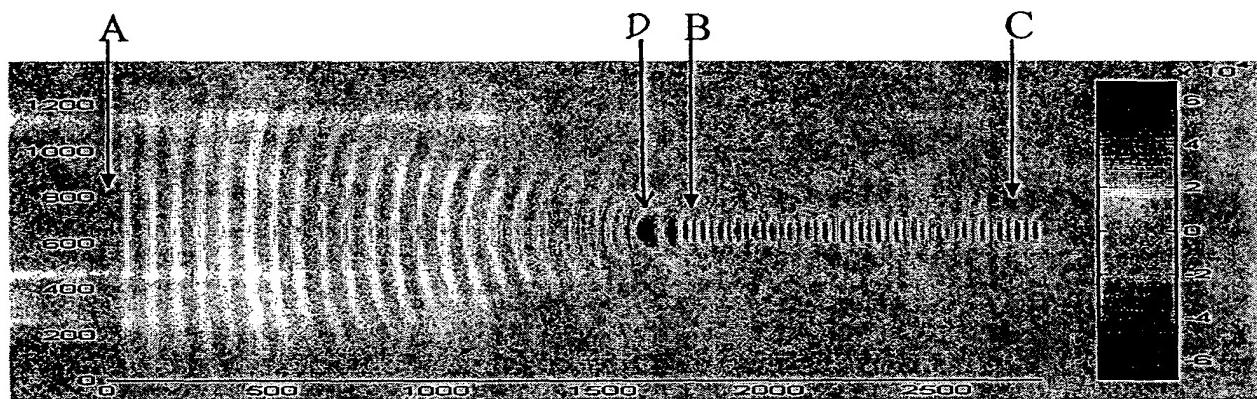


FIG. 4



(a) Two Material Case, with AR coatings, 1 μm air gap, focusing in air



(b) Multiple step index case, 1 μm air gap, AR coatings, focusing in air

FIG. 5

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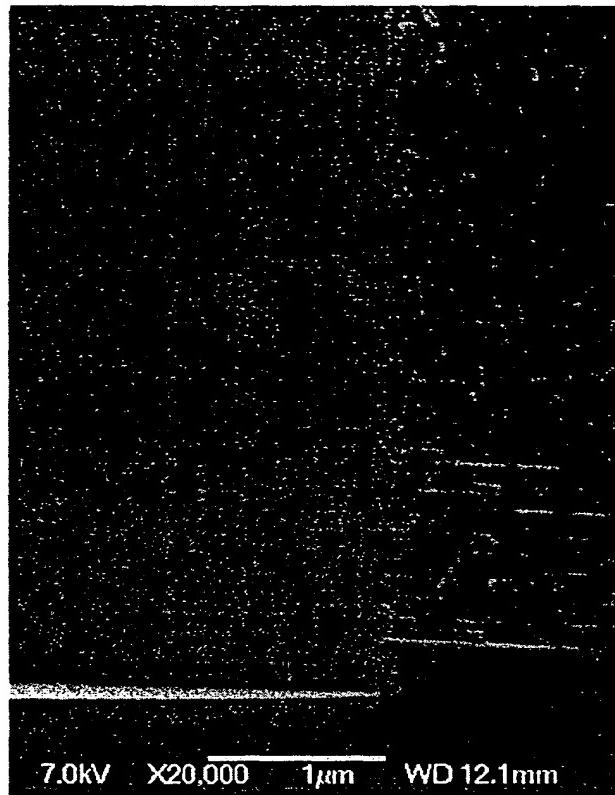
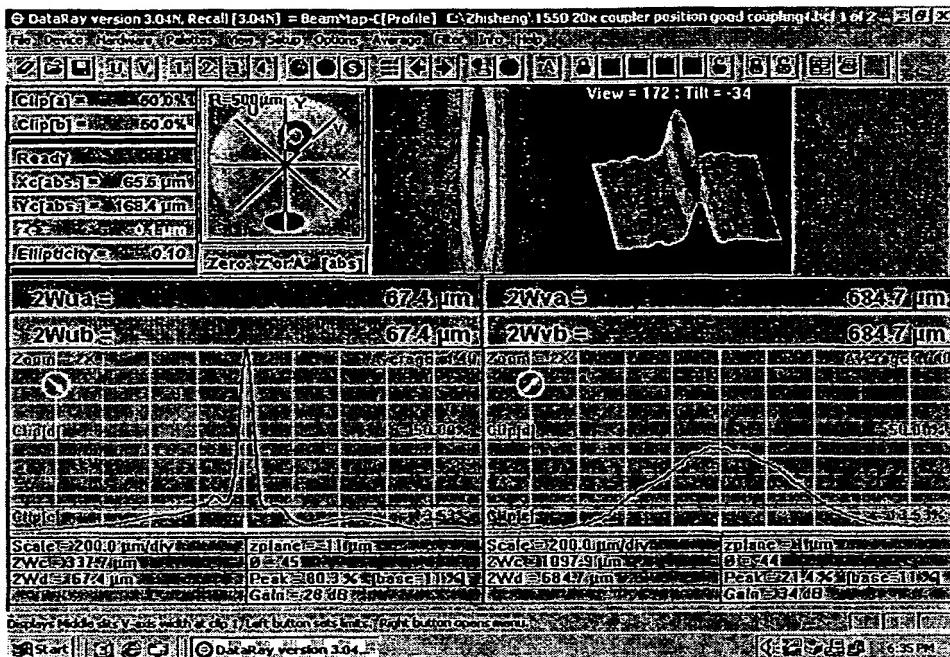
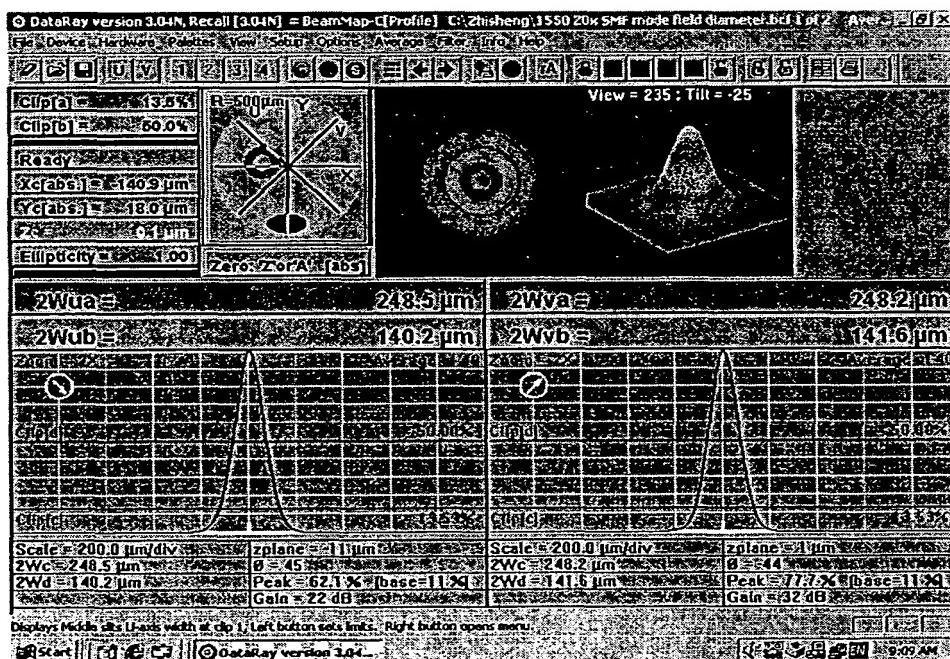


FIG. 6

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(a)



(b)

FIG. 7

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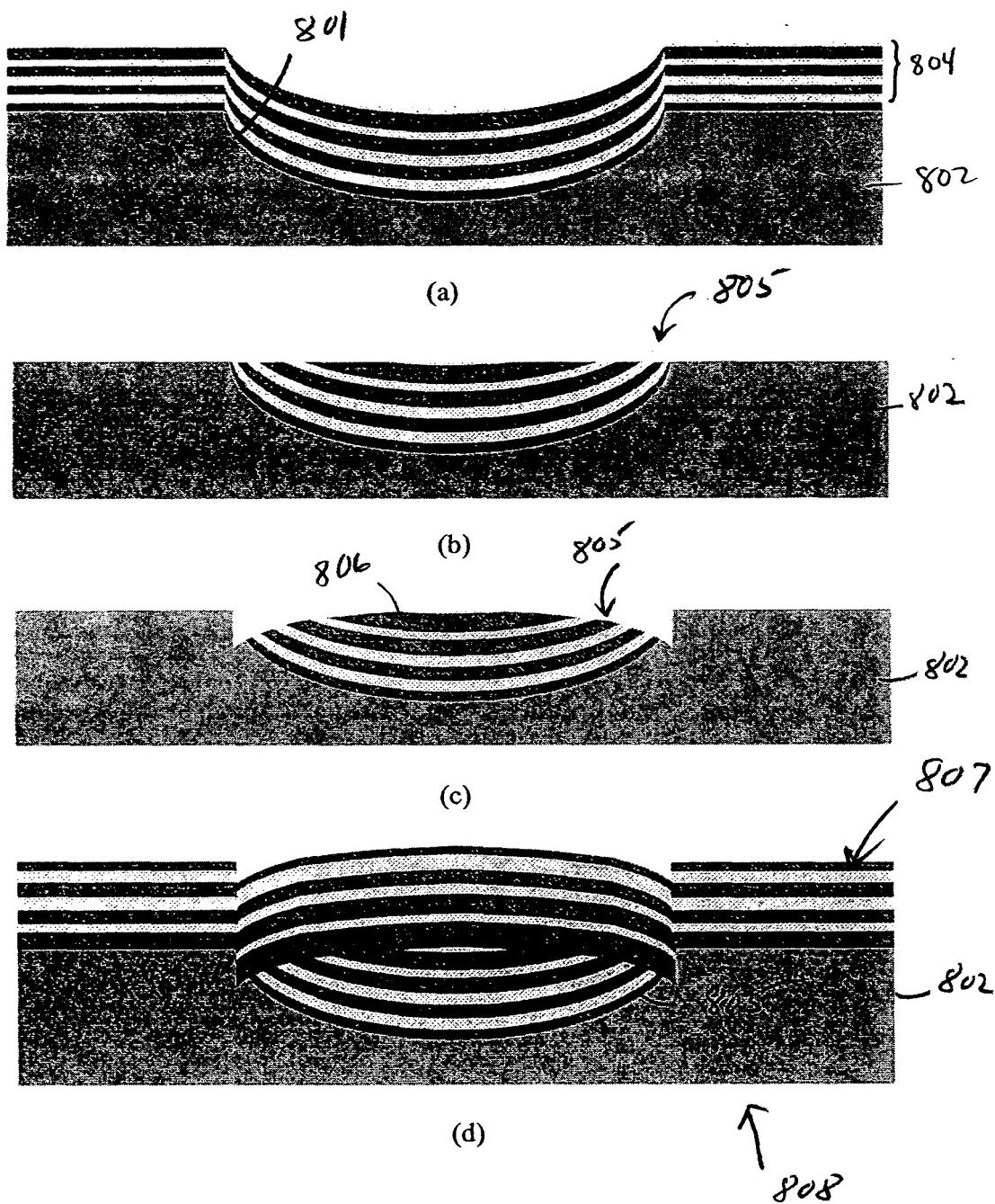


FIG. 8